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FULBRIGHT & JAWORSKI LLP

Laurel Olds      3/13/02  
Signature                      Date

**NIAD 201.3 DIV - AP/NDH (10109394)**



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s) : Myron JACOBSON et al.

Serial No. : 09/973,451

Filed : October 9, 2001

For : GENES ENCODING SEVERAL POLY (ADP-RIBOSE) GLYCOHYDROLASE (PARG) ENZYMES, THE PROTEINS AND FRAGMENTS THEREOF, AND ANTIBODIES IMMUNOREACTIVE THEREWITH

Group : UNKNOWN

Examiner : UNKNOWN

March 13, 2002

Hon. Commissioner for Patents  
and Trademarks  
Washington, DC 20231

**PRELIMINARY AMENDMENT**

Sir:

Prior to examination, please amend this application as follows:

**IN THE SPECIFICATION**

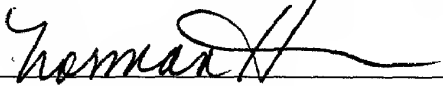
Page 11, line 15: change "Figure 16 depicts" to -- Figures 16A-D depict --.

REMARKS

The foregoing amendment is presented to address a change in the drawings.

Respectfully submitted,

**FULBRIGHT & JAWORSKI L.L.P.**

By 

Norman D. Hanson

Reg. No. 30,946

666 Fifth Avenue  
New York, NY 10103  
(212) 318-3000

Bparg 1 MSAGPGCEPCTKRPRWDAAATSPPAASDARSFPGRRVLD SKDAPVQFRVPPSSG CALGRAGQERGSATSL  
Eparg 1 MNAGPGCEPCTKATRWGAATTS.PAASDARSFPGRRVLD PKDAEVQFRVPPSPSPACVPGQAGQERGSATSL  
Mparg 1 MSAGPGWEPCTKA.RWGAAGTSAPIASDARSFPGRRVLD PKDAPVQFRVPPSPSPACVSGRAGPERGSATHF  
Dparg 1 -----  
Ceparg1 -----  
  
Bparg 74 VFKQKTITSWMDTKGIKTVESKSL ESXEHHTREESMMSSVQK DHFYQH HMEKLEHVSQ LGFDKSPVEKGTQY  
Eparg 73 VFKQKTITSWMDTKGIKTVESKSL DSXEHHTREESMMSSVQK DHFYQH HVEKLVHVSQ LSLDKSLTEKSTQY  
Mparg 73 VFKQKTITSWMDTKGIKTVESK... SXEHHTREESMMSSVQK DHFYPHKVEKLEHVPQ LNLDKSPTEKSSQY  
Dparg 1 -----  
Ceparg1 -----  
  
Bparg 218 LKQHQTAAAMCKWQHGHGPHSERLLESEPPAVTLVPEQF SHAHVDQSSPKDDHSDTNSEESRDNQQLTHVKL..  
Eparg 217 LKQHQTAAAMCKWQHGHGKHTEQ LLESEPQTVTLVPEQF SHAHIDRSSPQNDHSDTDSEHRDNQQLTTVKL..  
Mparg 214 LKQQQTASVCKWQHGHGKHAEQ LLASEPPAGTPLPKQL SHAHIGQSPETDDHSDTDHEEDRDNQQLTPIKL..  
Dparg 1 -----  
Ceparg1 -----  
----- MSKKFIELGDPVTQDEKDYDYVGVGFAEQVP  
  
Bparg 298 .ANAKQTMEDQGREARSHQKCGKACHPAEACAGCQQEETDVVSESP LSDTGS EDVGTGLKHAHRLHRQESSL  
Eparg 297 .ANAKQTMEDEHAREAKSHQKCSKCHPGEDCASCQQDEIDVVPKSP LSDVGS EDVGTGSKHDHKLIRQESSL  
Mparg 291 .ANTKPTVGDGQ... ARSHCKCSGRQSKEDCTGCQQEEVDVLPESPLSDVGAEDIGTGPKHDHKLITGQESSL  
Dparg 1 -----  
Ceparg 33 TMKRRKLTEEGNTTESKEDPEEPKSRDVFVSSQSSDESQEDSAENPEIAKEVSENCENLTETLKISNIESLDN  
  
Bparg 396 GHSPPFKESEPESPMDVDNSKHSCQDSEADEETSPGFDE.QEDSSSAQTANKPSRFQPREADTELKRKSSAK  
Eparg 395 GHSPPFKESEPESPMDVDNSKHSCQDSEADEETSPGFDE.QEDGSSQTANKPSRFQARDADIEFRKRYSTK  
Mparg 387 GDSPPFKESEPESPMDVDNSKHSCQDSEADEETSPvFDE.QEDRSS.QTANKLSSCQAREADGDLRKRylTK  
Dparg 1 MQEFRSHLIPIFQ.KVIQS.TANRRR.ASASVL..... TNRLGK...ALCLNCARMSKSPDGGI SEIE...  
Ceparg106 VTERSEHTLDN...HKSTEPHEE.DVNNKSHIDVAINSDEDDDELVL EENHKEMRDGEQVQQLS..QDLFADD

FIG. 16A

Bparg 468 GGEIRLHFQFEGGESRAGMN.DVNAKRPGSTSSLNVECRNSKQEGRKDSKITDEFMRVPKAE DKRKEQCEMKH  
 Eparg 467 GGEVRLHFQFEGGESRTGMN.DLNAKLPGNISSLNVECRNSKQEGKKDSKITDELMLRLPKAE DRRRKEQWETKH  
 Mparg 354 GGEVRLHFQFE.GEMNAGTS.DLNAKPSGNSSSLNVECRSSKQEGKRDSKITDEFMRISKSE DRRRKEQCEVRH  
 Dparg 59 .TEEE.PENLANSL..DDSWRGVSMEAIHRNRQPFLENLPPVTAGNLHRVMIQLPIRET..PPR.PIKSPG  
 Ceparg 172 QELIEIPGIMKDTTQOLDITDSEVETAQKMEMIEETEADSTFVGEDSKATKTVRTSSSF...LSTVSTCEAP

Bparg 540 QRTERKIPKYVPPHLSPDKKWLGTPIEEM..RRMPCGIRLPPLRPSANHTVTIRVDLLRIGEVPK.PFPPTHF  
 Eparg 539 QRTERKIPKYVPPPELSPDKKWLGTPIEEM..RRMPCGIRLPPLRPSANHTVTIRVDLLRAGEVPK.PFPPTHY  
 Mparg 425 QRTERKIPKYVPPMLPPEKKWLGTPIEEM..RKMPRCGIHLPSLSPSASHTVTIRVDLLRAGEVPK.PFPPTHY  
 Dparg 125 X..WDSEEVRLPCAPESKYPRENPDGS.TTIDFRWEMIERALLQPIKTCHEELQAAIISIHTTIRDQWEFRAL E  
 Ceparg 242 AKGRAMIQKELEKEVIAFTEGNLT....LQPDLNKVDPPDRNIRI.CTIPNFPASQG...KLRED.NRIG...

Bparg 610 KDLWDNKEVXMP CSEQNLYPVEDENGE.RAAGSRWELIQTALLHRLTRPQNLKDAILKINVAISKKWDF TAL I  
 Eparg 609 KDLWDNKEVXMP CSEQNLYPVEDENGE.RTAGSRWELIQTALLHKFTRPQNLKDAILKINVAISKKWDF TAL I  
 Mparg 495 KDLWDNKEVXMP CSEQNLYPVEDENGE.RTAGSRWELIQTALLHKFTRPQNLKDAILKINVAISKKWDF TAL V  
 Dparg 196 QLLDEELDESETRVFFQSIPLDMVKIALCLPNICTQPIPLLKQKMNHSITMSQEQIASLLANAFFCTFFPRR NA  
 Ceparg 367 PKIVLPQRWRE.FDSRGRR...RDSYFYFKRKLDGILKCIKTGTGYFMFVGLLH.....HMWE..FDPDITIK

Bparg 682 DFWDXVLEEEAEAHLYQSILPDMVKIALCLPNICTQPIPLLKQKMNHSITMSQEQIASLLANAFFCTFFPRR NA  
 Eparg 681 DFWDXVLEEEAEAHLYQSILPDMVKIALCLPNICTQPIPLLKQKMNHSITMSQEQIASLLANAFFCTFFPRR NA  
 Mparg 567 DFWDXVLEEEAEAHLYQSILPDMVKIALCLPNICTQPIPLLKQKMNHSITMSQEQIASLLANAFFCTFFPRR NA  
 Dparg 269 .KMKSEISSYYPDIHFNRLFEGRSSRKPEKLKTLFCIFRRV..TERDASNVP TGVTFFVRRSGLPEE.L.IDWS  
 Ceparg 424 ...LPAL.EMYKEMSELVGREEVLEKFARVARIAKTAEDILPERIYRLVG DVE.SATLSHKQCAALVARMF

Bparg 755 .KMKSEISSYYPDIHFNRLFEGRSSRKPEKLKTLFCIFRRV..TEKK....PTGLVTFIRQS.L.ED.F.PEWE  
 Eparg 754 .KMKSEISSYYPDIHFNRLFEGRSSRKPEKLKTLFCIFRRV..TEKK....PTGLVTFIRQS.L.ED.F.PEWE  
 Mparg 387 .KMKSEISSYYPDIHFNRLFEGRSSRKPEKLKTLFCIFRRV..TEKK....PTGLVTFIRQS.L.ED.F.PEWE  
 Dparg 337 QSAAPLGDVPLEVDAEGTIEDEGILLQVDFAHKYLGGVGLGHGCVQEEIRFVICPELLVGKLFTECLRPFEA  
 Ceparg 491 FA.....RPDSPFS.....FCRILSSDKSICVEKLKFLFTIF.....DKMSMDPPDGA VSF.RLT KMD

FIG. 16B

Bparg 817 RCEKLL..TRLEVIYEGTIEGNQGMLQVDFAHRFVGGVTSAGLVQEEEIRFLIHPELIVSRFLFIEVLHDHNEC  
 Eparg 816 RCEKPL..TRLEVIYEGTIEGNQGMLQVDFAHRFVGGVTSAGLVQEEEIRFLIHPELIIISRLFIEVLHDHNEC  
 Mparg 702 RCEKPL..TRLEVIYEGTIEGNRGMQLQVDFAHRFVGGVTSAGLVQEEEIRFLIHPELIVSRFLFIEVLHDHNEC  
 Dparg 410 LVMLGAERYSNYTGIAGSFEWS....GNFEDSTP.RDSSGRRQTAIVADALHFA.QSHH....QYREDL  
 Ceparg 543 KDIFNEEW.XDXXLRLSPEVEFFDEMLIEDTAL.CTQVDFAHHEHLGGVNLHGVSQVEEIRFLMCPMMVGMILL

Bparg 888 LIITGTEQISEYTGIAETRWAAAA.RSHEDRSE.RDDWQRRTEIWAIDALHFR.RYLD....QFVPEKIR  
 Eparg 887 LIITGTEQISEYTGIAETRWWS....RSHEDRSE.RDDCERRCTEIVAIDALHFR.RYLD....QFVPEKMR  
 Mparg 773 LIITGTEQISEYTGIAETRWAAAA.RSHEDRSE.KDDWQRRCTEIVAIDALHFR.RYLD....QFVPEKVR  
 Dparg 472 MERELHKAYIGFVHWMVTTP..PGVATGNWGCAGFGGDSYLLKALLQLMVCAQLGRPLAYYTFGNVEFRDDF  
 Ceparg 614 CEKMKQLEAISIYGAVVFSSYTGYGHTLKWAELOPNHSRQNTNEFRDRFGRRLRVETIAIDAILFKGSKLDCQT

Bparg 951 RELHKAYCGFLRPGVSSEHLSAVATGNWGCAGFGGDARLKALIQYLAATAVAERDVVIFTFGDSELMRDIYSMH  
 Eparg 950 RELHKAYCGFLRPGVSSEHLSAVATGNWGCAGFGGDARLKALIQYLAATAVAERDVVIFTFGDSELMRDIYSMH  
 Mparg 835 RELHKAYCGFLRPGVPSEHLSAVATGNWGCAGFGGDARLKALIQYLAATAVAERDVVIFTFGDSELMRDIYSMH  
 Dparg 543 HEMWLLFRNDGTTVQQ.LWS.IILRSYRLIKEKSSKEPRENKASKKKLYDFI...KEELKKVRDVPGEAS  
 Ceparg 687 EQLNKANIIIREMKKASIGFMSQGPKFTHIP.IVTGWGCGAFNGDKPLKFIIQVIAAGVADRPLHFCFSFGEPE

Bparg 1021 TFLTERKLTVGE.VYKLLLLRYNNEECRNCSTPGP.....DIKLYPFIYHAVESCTQTTNQPQRTGA-----  
 Eparg 1020 IFLTERKLTVD.VYKLLLLRYNNEECRNCSTPGP.....DIKLYPFIYHAVESCAETADHSGQRTGT-----  
 Mparg 907 TFLTERKLDVGK.VYKLLLLRYNNEECRNCSTPGP.....DIKLYPFIYHAVESSAETDMPGQKAGT-----  
 Dparg 611 AEAGSSRVAGLGEGKSETSAKSSPELNKQPARPQITITQQSTDLLPAQLSQDNNSNSEDQALLMLSDDEEA  
 Ceparg 759 LAAXCKKIIIERMKQKDVTLGKSCFSIFS-----

Bparg 1087 -----  
 Eparg 1086 -----  
 Mparg 969 -----  
 Dparg 684 NAMMEAASLEAKSSVEISNSSTTSKTSSTATKSMGSGGRQLSLEMLDTHYEKGSASKRPRKSPNCSKAEG  
 Ceparg 787 -----

FIG. 16C

Bparg 1	-----
Eparg 1	-----
Mparg 1	-----
Dparg 410	TDKDEKDDIVD
Ceparg543	-----
Bparg 101	-----
Eparg 100	-----
Mparg 97	-----
Dparg 472	-----
Ceparg614	-----
Bparg 201	-----
Eparg 200	-----
Mparg 197	-----
Dparg 543	-----
Ceparg687	-----

FIG. 16D